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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,422	06/10/2005	Michael Hulskemper	112740-1087	3591
29177 7590 03/21/2007 BELL, BOYD & LLOYD, LLP P.O. BOX 1135			EXAMINER	
			PHAM, TUAN	
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
	·		2618	
<u> </u>				
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
- 3 MONT	HS	03/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
	10/538,422	HULSKEMPER, MICHAEL				
Office Action Summary	Examiner	Art Unit				
	TUAN A. PHAM	2618				
The MAILING DATE of this commu Period for Reply	nication appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this con - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for rep Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUNIC ns of 37 CFR 1.136(a). In no event, however, may a re nmunication. statutory period will apply and will expire SIX (6) MON' bly will, by statute, cause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) fi	led on <u>16 <i>January 2007</i></u> .					
2a) ☐ This action is FINAL .	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the prac	tice under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 7-12 is/are pending in the	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restr	iction and/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by t	he Examiner.	·				
10) The drawing(s) filed on is/are	e: a)□ accepted or b)□ objected to t	by the Examiner.				
Applicant may not request that any obj	ection to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including	ng the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected	to by the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a clain a) ☐ All b) ☐ Some * c) ☐ None of:	n for foreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
	y documents have been received.					
· · · · · · · · · · · · · · · · · · ·	y documents have been received in A	,				
	s of the priority documents have been	received in this National Stage				
• •	ional Bureau (PCT Rule 17.2(a)). ion for a list of the certified copies not l	received				
	on for a list of the certified copies flot	received.				
Attachment(s)	_	·				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review		ummary (PTO-413) s)/Mail Date				
Information Disclosure Statement(s) (PTO/SB/08 Paper No(s)/Mail Date		oformal Patent Application				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant's remark, filed on 01/16/2007, with respect to the rejection(s)of claim(s) 7-12 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made over Takizawa Kazuyuki (Publiccation No.: 09-205476).

Specification

2. The abstract of the disclosure is objected to because the abstract should not used the word "said". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. <u>Claims 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bae et al. (Pub. No.: US 2004/0203496, hereinafter, "Bae") in view of Takizawa Kazuyuki (Publiccation No.: 09-205476), and further in view of Bank et al. (Pub. No.: US 2003/0059069, hereinafter, "Bank").</u>

Regarding claim 7, Bae teaches a mobile telephone comprising (see figure 2):

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a first and a second housing part (sliding housing 20, main housing 10), wherein each part can be displaced with respect to one another in such a way that respective sections of each housing part are exposed as a result of the displacement (see figure 2, exposed section keypad, exposed section in rear of housing 20).

It should be noticed that Bae fails to teach one of the exposed sections is at least partially in the form of speaker. However, Takizawa Kazuyuki teaches such features (see figure 1, figure 2, the exposed section is included speaker 1, [0010]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Takizawa Kazuyuki into view of Bae in order to provide the audio signal to the user when they are in communication.

Bae and Takizawa Kazuyuki, in combination, fails to teach a bending wave loudspeaker comprising a plate-like element for emitting audible signals and an operating element for exciting bending waves in the plate-like element. However, Bank teaches a bending wave loudspeaker comprising a plate-like element for emitting audible signals (see figure 12, plate-like, [0081]) and an operating element for exciting bending waves in the plate-like element (see figure 5, figure 10, active piezoelectric resonant element, [0061, 0078]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of bank into view of Bae and Takizawa Kazuyuki in order to improve the input energy as suggested by Bank at col.1, [0007].

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Regarding claim 8, Bank further teaches a material for the plate-like element is optimized for the purpose of excitation with bending vibrations (see [0004, 0057]).

Regarding claim 9, after combine, Takizawa Kazuyuki and Bank teach the plate-like element of the bending wave loudspeaker is arranged in the exposed section of the second housing part (see figure 2 of Takizawa Kazuyuki, figure 12 of Bank, plate-like, [0081]). Bae teaches a keypad arranged in the section of the first housing part that is exposed by the displacement (see figure 2, main housing 10, keypad 12).

Regarding claim 10, Bank further teaches a separating wall between the platelike element in the region of the exposed section of the second housing part and the interior of said housing part (see figure 2, upper and lower beam 88 and 90).

Regarding claim 11, Bank further teaches the separating wall mechanically protects the interior of the second housing part against buckling of the plate-like element (see figure 2, upper and lower beam 88 and 90).

Regarding claim 12, after combine, Takizawa Kazuyuki and Bank teaches the bending wave loudspeaker is arranged on a front face of the mobile telephone when the first and the second housing part are displaced with respect to one another (It appear to examiner that arrange the bending wave loudspeaker on the rear face of the mobile phone would depend more upon the choice of the manufacturer and the choice of engineering, than on any inventive concept).

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit 2618 March 16, 2007

Examiner

Tuan Pham

Supervisory Patent Examiner Technology Center 2600

Matthew Anderson